AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated:

l	1. (Original) A method for automated management of hydrocarbon gathering, the
2	method comprising:
3	collecting data from a plurality of automated measurement and control devices
1	positioned in a hydrocarbon gathering system;
5	comparing the collected data with data stored in a database; and
5	using the data comparison to automatically schedule a test of at least one of the
7	plurality of automated measurement and control devices.
8	
1	2. (Original) The method of claim 1, wherein the data stored in the database is
2	automatically updated with the collected data.
3	
1	3. (Original) The method of claim 1, wherein the stored data comprises contractual
2	provisions contained in contracts between a hydrocarbon gathering company and anothe
3	entity.
4	
1	4. (Original) The method of claim 3, wherein the contractual provisions comprise a
2	testing frequency for the automated measurement and control devices.
3	
1	5. (currently amended) The method of claim 1, wherein the management collected data
2	comprises test scheduling data defined by a hydrocarbon gathering company.
3	

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1	6. (Original) The method of claim 1, wherein the plurality of measurement and control
2	devices comprises electronic flow meters.
3	
1	7. (Original) The method of claim 1, wherein the plurality of automated measurement
2	and control devices comprises programmable logic controllers.
3	
1	8. (Original) The method of claim 1, wherein the plurality of automated measurement
2	and control devices comprises remote terminal unit.
3	
4	9. (Original) The method of claim 1, wherein the plurality of automated measurement
5	and control devices comprises automated gas composition analysis devices.
6	
7	10. (Original) The method of claim 1, wherein using the data comparison further
8	comprises:
9	notifying a field technician of a required test for at least one of the plurality of
10	automated measurement and control devices; and
11	automatically notifying a witness of the test after the field technician has selected
12	a test date.
13	
1	11. (previously presented) A method for automated management of hydrocarbon
2	gathering, the method comprising:
3	collecting data from a plurality of automated measurement and control devices
4	positioned in a hydrocarbon gathering system;

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5	comparing the collected data with data stored in a database;
6	using the data comparison to automatically schedule a test of at least one of the
7	plurality of automated measurement and control devices;
8	analyzing the collected data to determine a volume of a flow of hydrocarbons
9	through at least one of the plurality of automated measurement and control
10	devices;
11	comparing the volume of the hydrocarbon flow to contractual provisions stored in
12	the database; and
13	automatically scheduling meter tests according to the stored contractual
14	provisions.
15	
1	12. (previously presented) The method of claim 11, further comprising:
2	automatically updating the database after testing of at least one of the plurality of
3	automated measurement and control devices.
4	
1	13. (Original) The method of claim 11, wherein selected field personnel are
2	automatically notified of the automatically scheduled tests.
3	
1	14. (Original) The method of claim 13, wherein the automatic notification is transmitted
2	electronically.
3	
1	15. (Original) The method of claim 11, wherein a witness is automatically notified of the
2	automatically scheduled tests.

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3	
1	16. (Original) The method of claim 15, wherein the automatic notification is transmitted
2	electronically.
3	
1	17. (previously presented) The method of claim 11, further comprising:
2	testing at least one of the plurality of automated measurement and control devices;
3	automatically comparing test data with master testing data stored in the database;
4	and
5	generating an alarm if a variance between the new testing data and the master
6	testing data exceeds a selected threshold.
7	
1	18. (previously presented) The method of claim 11, further comprising:
2	automatically measuring electrical current flow in at least one cathodic protection
3	system positioned in the hydrocarbon gathering system; and
4	generating an alarm if the automatically measured electrical current flow exceeds
5	a selected threshold.
6	
1	19. (previously presented) The method of claim 11, wherein a computer system
2	connected to the database automatically generates an alarm when a selected event
3	is detected.
4	
1	20. (Original) The method of claim 19, wherein the selected event comprises detection of
2	non-conforming test data collected from at least one of the plurality of automated

3	measurement and control devices.
4	
1	21. (Original) The method of claim 19, wherein the selected event comprises detection of
2	a failure of at least one of the plurality of automated measurement and control
3	devices.
4	
1	22. (Original) The method of claim 19, wherein the selected event comprises detection of
2	a system imbalance beyond a selected threshold.
3	
1	23. (Original) The method of claim 19, wherein the selected event comprises detection of
2	a change in natural gas composition beyond a selected threshold.
3	
1	24-50 canceled.
2	
1	51. (Original) The method of claim 1, wherein the collected data and data stored in the
2	database are used to model pipeline hydraulics.
3	
1	52. (Original) The method of claim 1, further comprising:
2	using the collected data and data stored in the database to automatically generate a
3	report for a selected unit of a hydrocarbon gathering system.
4	
1	53. (Original) The method of claim 1, wherein the collected data and data stored in the
2	database are used to evaluate reservoir production.

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